Specifications — System 10 Plus Switcher

Video

Gain	0 dB, unity
Bandwidth	250 MHz (-3 dB)
Differential phase error	0.01° at 3.58 MHz and 4.43 MHz
Differential gain error	0.01% at 3.58 MHz and 4.43 MHz
Crosstalk	-35 dB @ 10 MHz (typical)
Isolation	-55 dB @ 10 MHz (typical)

Video input

Number/signal type	8 or 10 RGBHV, RGBS, RGsB, S-video, or NTSC/PAL composite video
Connectors	(8 or 10) x 5 BNC female
Nominal level	1 Vp-p for Y of S-video and for composite video 0.7 Vp-p for RGB 0.3 Vp-p for C of S-video
Minimum/maximum levels	Analog: 0.3 V to 2 Vp-p TTL: up to 5 Vp-p
Impedance	75 ohms (deselected inputs)
Horizontal frequency	15 kHz to 150 kHz
Vertical frequency	30 Hz to 150 Hz
Return loss	<-25 dB @ 10 MHz

Video output

Number/signal type	1 RGBHV, RGBS, RGsB, or 1 S-video (NTSC/PAL), or 1 composite video (NTSC/PAL)
Connectors	5 BNC female (RGBHV/RGBS/RGsB) 2 BNC female (S-video) 1 BNC female (composite video)
Nominal level	1 Vp-p for Y of S-video and for composite video 0.7 Vp-p for RGB 0.3 Vp-p for C of S-video
Minimum/maximum levels	0.3 V to 2.0 Vp-p
Impedance	75 ohms
Return loss	-30 dB @ 5 MHz
DC offset	None
Switching type	Triple-Action™; 0 s to 7.5 s, adjustable

Sync

Input type	RGBHV, RGBS, RGsB
Output type	RGBHV, RGBS, RGsB
Standards	NTSC and PAL
Input level	0.5 V to 5 Vp-p
Output level	0.5 V to 5 Vp-p, unterminated
Input impedance	510 ohms (deselected inputs)
Output impedance	75 ohms
Max input voltage	5 Vp-p
Input sensitivity	5 Vp-p
Polarity	Positive or negative (follows input)

Audio

Gain	Unbalanced output: 0 dB; balanced output: +6 dB

Frequency response	20 Hz to 20 kHz, ±0.05 dB
THD + Noise	0.015% @ 20 Hz to 20 kHz, worst case
S/N	>95 dB at maximum output
Crosstalk	<-85 dB @ 20 Hz to 20 kHz, fully loaded
Stereo channel separation	>60 dB @ 20 Hz to 20 kHz
CMRR	>60 dB @ 60 kHz

Audio input

Number/signal type	10 stereo, balanced/unbalanced
Connectors	(8 or 10) 5 mm captive screw connectors, 6 conductor
Impedance	>10k ohms unbalanced, 20k ohms balanced, AC coupled
Nominal level	-20 dBV (100 mV), -10 dBV (316 mV), 0 dBu (0.775 V), or +4 dBu (1.23 V), configurable

NOTE *0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu*
+4 dBu and 0 dBu are professional audio line level standards.
-10 dBV and -20 dBV are semiprofessional, computer audio, and consumer audio standards.

Maximum level	+13.2 dBu, (balanced or unbalanced) at 1%THD+N
Input gain adjustment	-95 dB to 0 dB, adjustable per input

Audio output

Number/signal type	1 stereo, balanced/unbalanced
Connectors	(1) 5 mm captive screw connector, 6 pole 2 BNC female
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	±0.2 dB channel to channel
Maximum level (Hi-Z)	> +19.2 dBu, balanced or unbalanced at 1%THD+N
Maximum level (600 ohm)	> +19.2 dBm, balanced or unbalanced at 1%THD+N

Control/remote — switcher

Serial control port	RS-232, 9-pin female D connector
Baud rate and protocol	9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configurations	2 = TX, 3 = RX, 5 = GND
Remote key pad control	(1) 25-pin D female
IR controller module	IR-201 (optional), part #70-142-01; or IR-301 (optional), part #70-143-01
Program control	Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™)

Control — projector

Projector control port	(1) 15-pin HD female

General

Power	90 VAC to 260 VAC, 50/60 Hz, 10 watts, internal, autoswitchable
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Rack mount	Yes, with attached rack ears
Enclosure type	Metal
Enclosure dimensions	5.25" H x 17.5" W x 9.6" D (3U high, full rack wide) 13.3 cm H x 44.4 cm W x 24.4 cm D (Depth excludes connectors. Width excludes rack ears.)
Product weight	13.2 lbs (6.0 kg)
Shipping weight	20 lbs (9 kg)
DIM weight (International)	25 lbs. (12 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)

Specifications — System 10 Plus Switcher (continued)

Listings	UL, CUL
Compliances	CE
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE *All nominal levels are at ±10%.*

NOTE *Specifications are subject to change without notice.*

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